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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/992,984	1	1/05/2001	Michael Baentsch	CH920000018US1	CH920000018US1 7655	
25259	7590	10/19/2006		EXAMINER		
IBM CORF	_		SON, LI	SON, LINH L D		
DEPT. T81 / B503, PO BOX 12195 REASEARCH TRIANGLE PARK, NC 27709				ART UNIT	PAPER NUMBER	
				2135		

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/992,984	BAENTSCH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Linh LD Son	2135	
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be the will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed not the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>20 J</u>	uly 200 <u>6</u> .		
	s action is non-final.		
3) Since this application is in condition for allowa	ince except for formal matters, pi	rosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1,3-7,9,10,12,14-17 and 19</u> is/are pe	nding in the application.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1, 3-7, 9-10, 12, 14-17, and 19</u> is/are	rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers		•	
9) The specification is objected to by the Examine	er		
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).	
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some *-c) ☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
1. Certified copies of the priority documen	ts have been received		l
2. Certified copies of the priority documen		tion No.	•
3. Copies of the certified copies of the price		_	
application from the International Burea		-	
* See the attached detailed Office action for a list	of the certified copies not receive	red.	
	Thanh	nga B. Tru	
Attachment(c)		AUZIST	
Attachment(s) 1) X Notice of References Cited (PTO-892)	. 4) Interview Summar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application	

DETAILED ACTION

- 1. This Office Action is responding to the Amendment received on 7/20/06.
- 2. Claims 2, 8, 13, and 18 are canceled.
- 3. Claims 1, 3-7, 9-10, 12, 14-17, and 19 are pending.
- 4. In Office Action dated 04/20/06, Examiner objected claims 2, 8, 11, 13, and 18 to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Due to a newly found art in an updated search, Examiner regrets that the amended claims is still reject able. This office action is set back to a Non-Final status.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2135

6. Claims 1, 3-7, 9-10, 12, 14-17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stammers et al, US Patent No. 7096554B1, hereinafter "Stammers", in view of Schwabe, US Patent No. 6883163.

7. As per claims 1, 7, 10, 12, and 17:

STAMMERS discloses "The method for language verification of a reduced file derived from an original file, the reduced file conserving original semantics, said method comprising:

a) a conversion step for converting said reduced file (Classloader reads the JAR file and converts the class byte code into executable code in Java virtual machine working memory (Col 7 lines 20-26)) into a corresponding converted file (class objects (Col 7 lines 35-40)) that is semantically identical to said reduced file

wherein said conversion step further includes:

"A preconversion substep for converting Java Card Ids contained in said Java

Card CAP file into symbolic names [JAR file is the CAP file. The classloader create

class objects only from class files contained in the JAR file signed class items (Col 7

lines 26-27)], and for converting said Java card CAP file into a standard Java format

(Class objects executable in JAVA virtual machine working memory (Col 7 lines 20-26),

to obtain a preconverted file [initialization file object (Col 8 lines 3-7)]; and

"A mapping substep for replacing in said preconverted file externally defined names with original names by using a mapping scheme between Java names and tokenized identifiers (Every Object created by a classloader is tagged with a reference

Application/Control Number: 09/992,984

Art Unit: 2135

to that classloader. A classloader maintains references to all of the objects it has created in a hashtable keyed on the object name reference to the class file), to obtain the converted Java Code file for a language verification step" in (Col 7 lines 25-40); and

However, STAMMERS does not specifically teach a method of "b) a languageverification step for verifying said converted file".

Nevertheless, Schwabe discloses the "Populating resource constrained devices with content verified using API definitions" invention, which includes a method to verify the CAP file or binary file using the API definitions, which is an export file of the class file (Col 18 lines 5-17, and Col 16 lines 18-35). The verification process utilizes the API definition file (Export class file) and the binary file (CAP or JAR file) to create a code sample for execution similar to the class object in Stammers' teaching. The execution result integer parameter should match the declaration method in the binary file (Col 16 line 60 to Col 17 line 13). The code sample and the object are similar.

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify STAMMERS' teaching and incorporate Schwabe's bytecode verification method to verify the JAR or CAP file.

8. As per claims 3, 14, and 19:

SCHWABE disclose "The method for language verification of a Java card CAP file according to Claims 2, 13, and 18, wherein said mapping sub-step is performed using a referenced Java export file (API definition file) which is available as a result of

Art Unit: 2135

creating said Java card CAP file from said original Java code file" in (Col 18 lines 5-17, and Col 16 lines 18-35).

9. As per claim 9:

SCHWABE disclose "The method for language verification of a reduced file according to Claim 8, wherein said mapping sub-step is performed using a referenced difference file which is available as a result of deriving said reduced file from said original file" in (Col 18 lines 5-17, and Col 16 lines 18-35)

10. As per claims 4, and 15:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claims 1 and 12 the method further comprising: c) a signature step for creating, after verification of said converted Java code file in said language verification step, a second cryptographic signature file" in (Col 17 lines 55-67).

11. As per claims 5 and 16:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claims 4 and 15, further comprising: d) a loading step for loading the second cryptographic device together with the Java card CAP file, signature file to a storage" in (Col 18 lines 15-25).

Application/Control Number: 09/992,984 Page 6

Art Unit: 2135

12. As per claim 6:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claim 4, wherein the second cryptographic signature file is cryptographically verifiable, said method further comprising: e) an executing step for executing cryptographic verification said Java card CAP file upon a positive" in (Col 16 lines 35-55) [the verification is verified when a signature is matched (Col 16 lines 47-52)].

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/992,984

Art Unit: 2135

Linh LD Son Examiner Art Unit 2135 Thankings B. Trans

Page 7